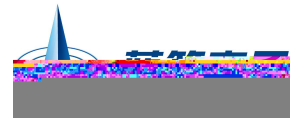


/ Revised record

A	2017-12				
B	2021-2-18	7			

Rev.B Feb.-2021

Rev.B Feb.-2021



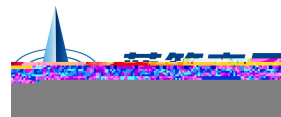
5kdCt

50V~600V

3.0A SMC

Surface Mount , P

,



/ Absolute Maximum Ratings(Ta=25)

参数 Parameter	符号 Symbol	数值 Rating							单位 Unit
		ES3AC	ES3BC	ES3CC	ES3DC	ES3EC	ES3GC	ES3JC	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	V
Maximum RMS voltage	V _{RMS}	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current at T _c = 125℃	I _{F (AV)}	3.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	90							A
Typical Junction Capacitance at V _R =4V, f=1MHZ	C _j	40							pF
Typical Thermal Resistance ⁽¹⁾	R _{θJA}	40							℃/W
	R _{θJC}	16							
Operating and Storage Temperature Range	T _j , T _{stg}	-55~+150							℃

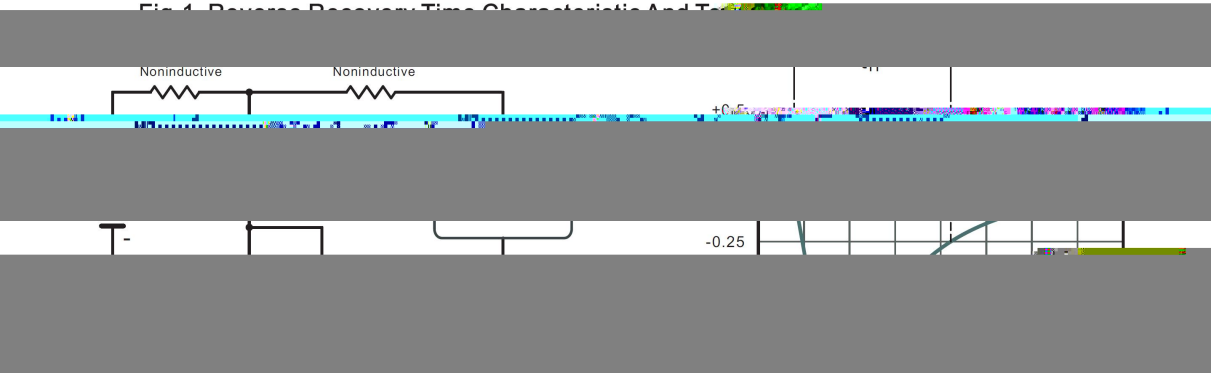
Note:

(1) P.C.B. mounted with 2.0 X 2.0" (5 X 5 cm) copper pad areas.

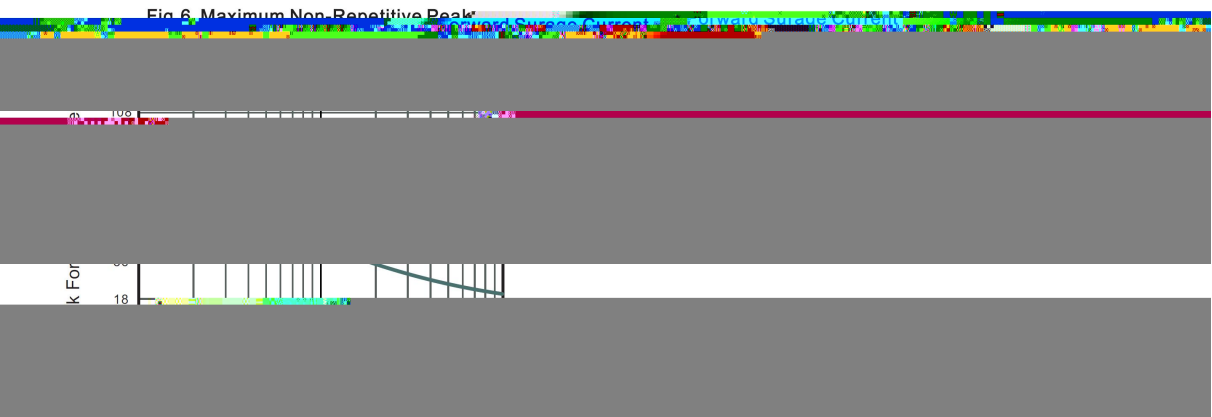
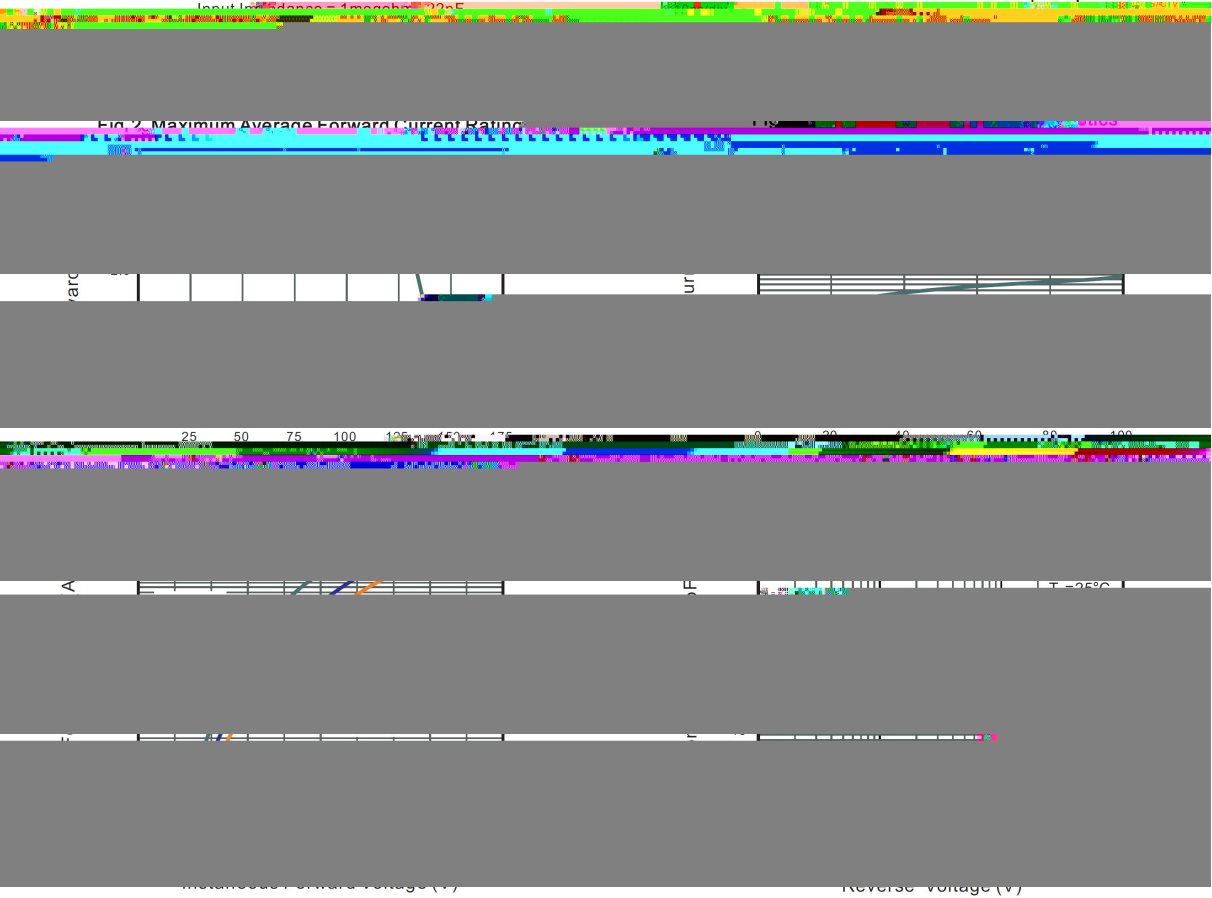
/ Electrical Characteristics(Ta=25)

参数 Parameter	符号 Symbol	测试条件 Test Conditions	数值 Rating							单位 Unit
			ES3AC	ES3BC	ES3CC	ES3DC	ES3EC	ES3GC	ES3JC	
Maximum Forward Voltage	V _F	I _F =3.0A	1.0				1.25		1.68	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	T _a =25℃	5.0							μA
		T _a =125℃	100							μA
Maximum Reverse Recovery Time	t _{rr}	I _F =0.5A I _R =1.0A I _{rr} =0.25A	35							ns

/ Electrical Characteristic Curve

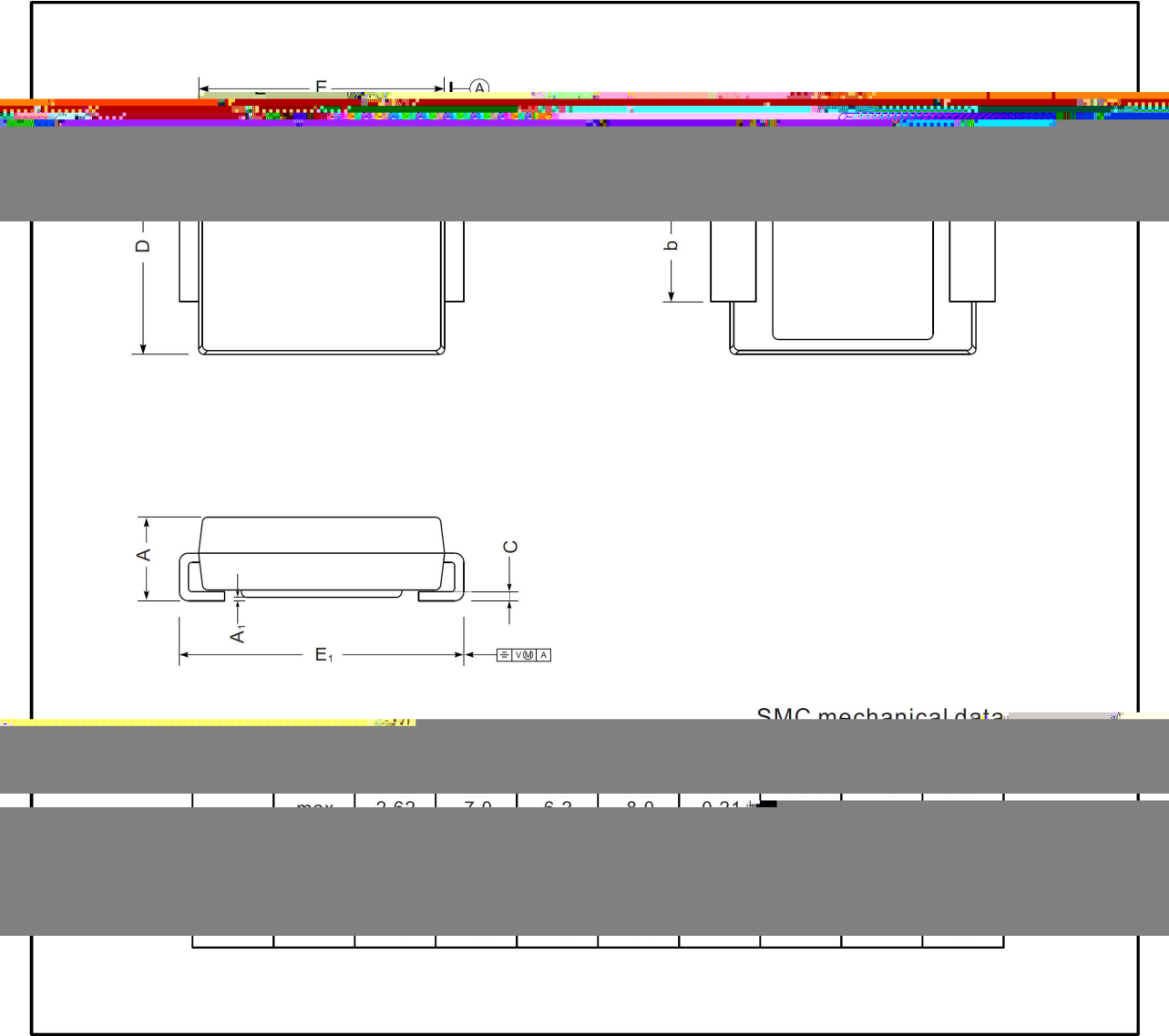


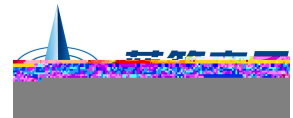
Note: 1. Rise Time = 7ns, max.



/ Package Dimensions

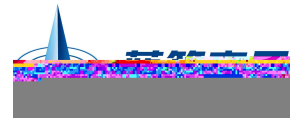
SMC



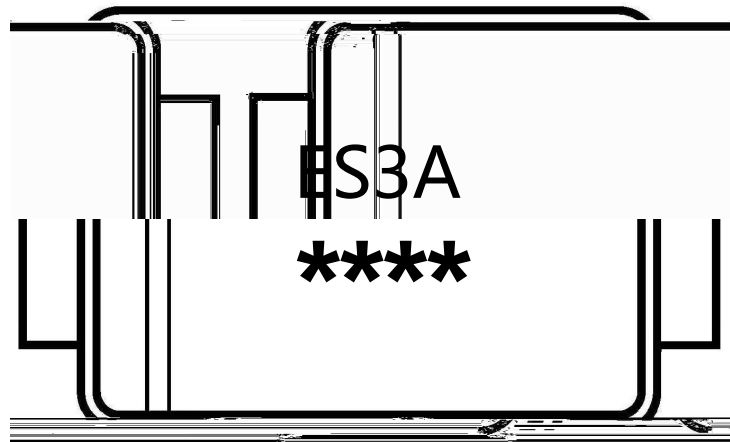


/ Marking Instructions

Marking



/ Marking Instructions



ES3A

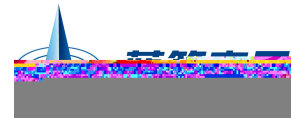
1 *

3 *

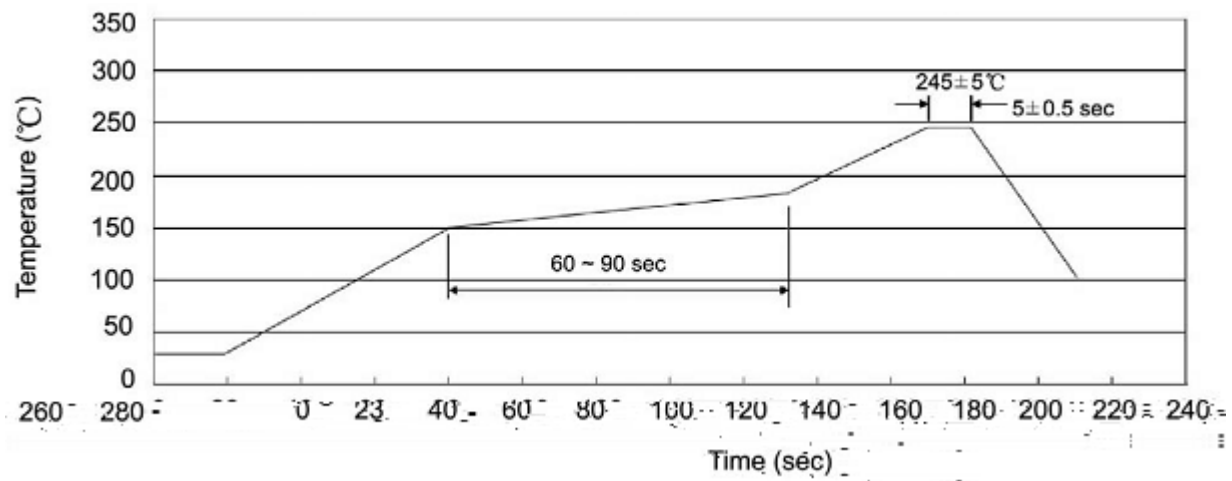
Note:

ES3A Product Type Code

***** Lot No. Code The 1st * means:YM Code The last 3 * means:little Lot No Code



() / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1 25 150 60 90sec;
- 2 245±5 5±0.5sec;
- 3 2 10°C/sec.

- 1.Preheating:25~150°C, Time:60~90sec.
- 2.Peak Temp.:245±5°C, Duration:5±0.5sec.
3. Cooling Speed:R b